

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: CONSTRUCTION OF COMPOUND WALL AND IMPROVEMENTS TO VELAHANKA GOVT HIGH SCHOOL PREMISES AT VELAHANKA OLD TOWN IN WARD NO.01

								Est.Cost.Rs.	10000000.00
Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-25. Dismantling of guard rails by manual means and disposal of dismantled materials with all lifts and stacking serviceable materials and unserviceable materials separately complete as per specifications. MORTH Specification No. 202 <i>p-140, Item No. 18.48</i>								
	SSLC and PUC college Behind	m	1	59				59.00	
	SSLC School Side	m	1	60				60.00	
	SSlc School Cycle Stand Side	m	1	30.87				30.87	
	Gate	m	1	4.3				4.30	
	Basic rate							87.00	
	Area weightage 8%							6.96	
	5Km lead & Lift=							69.80	
	57+(2*1.28*5)								
	Total						154.17	163.76	25246.88
2	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 page no 6 item no 2.3								
	For Compound Wall	Cum	1	1.58	0.9	0.9	1.28		
		Cum	1	4.7	0.9	0.9	3.81		
		Cum	1	7.3	0.9	0.9	5.91		
		Cum	1	18.1	0.9	0.9	14.66		
	SSLC and PUC college Behind	Cum	1	59	0.9	0.9	47.79		
	For Vidhansoudha Grill								
	SSLC School Side	Cum	1	60	0.9	0.9	48.60		
	SSlc School Cycle Stand Side	Cum	1	30.87	0.9	0.9	25.00		
	Basic rate							299.00	
	Area weightage 8%							23.92	
	5Km lead & Lift=							69.80	
	57+(2*1.28*5)								
	Total						147.06	392.72	57751.64
3	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
	For Compound Wall								
		Cum	1	1.58	0.9	0.15	0.21		
		Cum	1	4.7	0.9	0.15	0.63		
		Cum	1	7.3	0.9	0.15	0.99		
		Cum	1	18.1	0.9	0.15	2.44		
	SSLC and PUC college Behind	Cum	1	59	0.9	0.15	7.97		
	For Vidhansoudha Grill								
	SSLC School Side	Cum	1	60	0.9	0.15	8.10		
	SSlc School Cycle Stand Side	Cum	1	30.87	0.9	0.15	4.17		
	Basic rate							2429.00	
	Area weightage 8%							194.32	
	Total						24.51	2623.32	64295.61
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	Below SSM Footing								
		Cum	1	1.58	0.9	0.15	0.21		
		Cum	1	4.7	0.9	0.15	0.63		
		Cum	1	7.3	0.9	0.15	0.99		
		Cum	1	18.1	0.9	0.15	2.44		
	SSLC and PUC college Behind	Cum	1	59	0.9	0.15	7.97		

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	For Vidhansoudha Grill								
	SSLC School Side	Cum	1	60	0.9	0.15	8.10		
	SSlc School Cycle Stand Side	Cum	1	30.87	0.9	0.15	4.17		
	Basic rate							5102.00	
	Area weightage 8%							408.16	
	Total						24.51	5510.16	135049.89
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2, Pg No. 13 Item No. 4.6								
	Above SSM Footing	Cum	1	1.58	0.45	0.15	0.11		
		Cum	1	4.7	0.45	0.15	0.32		
		Cum	1	7.3	0.45	0.15	0.49		
		Cum	1	18.1	0.45	0.15	1.22		
	SSLC and PUC college Behind	Cum	1	59	0.45	0.15	3.98		
								5422.00	
	Basic rate							433.76	
	Area weightage 8%								
	Total						6.12	5855.76	35842.52
6	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammer dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No 25 item No 5.6								
	SSM Footing	Cum	1	1.58	0.6	0.6	0.57		
		Cum	1	4.7	0.6	0.6	1.69		
		Cum	1	7.3	0.6	0.6	2.63		
		Cum	1	18.1	0.6	0.6	6.52		
	SSLC and PUC college Behind	Cum	1	59	0.6	0.6	21.24		
	For Vidhansoudha Grill								
	SSLC School Side	Cum	1	60	0.6	0.6	21.60		
	SSlc School Cycle Stand Side	Cum	1	30.87	0.6	0.6	11.11		
								4596.00	
	Basic rate							367.68	
	Area weightage 8%								
	Total						65.36	4963.68	324416.20
7	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum					147.06		
	PCC for Footing	Cum					-24.51		
	Filling in foundation with granite / trap broken metal	Cum					-24.51		
								201.00	
	Basic rate							16.08	
	Area weightage 8%								
	Total						98.04	217.08	21281.87

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
8	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136, Item No 17.4								
	Excavated Earth	Cum					147.06		
	Filling Available of Excavated Earth						-98.04		
	Loading and unloading item no. 17.1 KSRRB M 100-1	Cum						57.00	
	Basic rate for haulage of materials as per item No. 17.4 KSRRB : M 100 - 4.1	t.km	For surface roads excludng Basic rate loading & unloading					2.00	
	Average Weight of earth	For 2Kms = 2x1.28x2						5.12	
	Basic rate							62.12	
	Area weightage 8%							4.97	
	Total						49.02	67.09	3288.63
9	KSRRB 5.4-4 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13 Pg No 25 item No 5.13								
	SSM Footing	Cum	1	1.58	0.45	0.60	0.43		
		Cum	1	4.70	0.45	0.60	1.27		
		Cum	1	7.30	0.45	0.60	1.97		
		Cum	1	18.10	0.45	0.60	4.89		
	SSLC and PUC college Behind	Cum	1	59.00	0.45	0.60	15.93		
	For Vidhansoudha Grill								
	SSLC School Side	Cum	1	60.0	0.45	0.45	12.15		
	SSle School Cycle Stand Side	Cum	1	30.87	0.45	0.45	6.25		
								6005.00	
	Basic rate							480.40	
	Area weightage 8%							42.88	6485.40
	Total								278124.92
10	KSRRB 15.1.3 - do - Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
	For SSM above GL	Sqm	2	1.58		0.60	1.90		
		Sqm	2	4.70		0.60	5.64		
		Sqm	2	7.30		0.60	8.76		
		Sqm	2	18.10		0.60	21.72		
	SSLC and PUC college Behind	Sqm	2	59.00		0.60	70.80		
	For Vidhansoudha Grill								
	SSLC School Side	Sqm	2	60.00		0.45	54.00		
	SSle School Cycle Stand Side	Sqm	2	30.87		0.45	27.78		
								142.00	
	Basic rate							11.36	
	Area weightage 8%						190.60	153.36	29230.26
	Total								
11	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification. Item no. 2.24 Page no. 8								
	For Half Site	Cum	1	9.5	1.35		12.8		
		Cum	1	9.5	22.60		214.7		
		Cum	1	9.8	21.80		213.6		
		Cum	1	9.8	2.60		25.4		
								61.00	
	Basic rate							4.88	
	Area weightage 8%						466.53	65.88	30735.22
	Total								

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 item No.19.64 page no.147								
	For Site								
	Sqm	1	9.5	1.3			12.8		
	Sqm	1	9.5	22.6			214.7		
	Sqm	1	9.8	21.8			213.6		
	Sqm	1	9.8	2.6			25.4		
	Sqm	1	51	22.0			1121.0		
	Sqm	1	53	14.5			768.8		
	Deduction of Toilet Area	Sqm	-1	5.1	3.4		-17.3		
		Sqm	-1	11.4	6.1		-69.5		
	Basic rate							6	
	Area weightage 8%							0.48	
	Total						2269.48	6.48	14706.22
13	KSRRB M300-53. Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 item no 19.6 page-147								
	Embankment								
	Cum	1	9.5	1.3	0.3		3.84		
	Cum	1	9.5	22.6	0.3		64.41		
	Cum	1	9.8	21.8	0.3		64.08		
	Cum	1	9.8	2.6	0.3		7.63		
	Cum	1	51	22.0	0.3		336.29		
	Cum	1	53	14.5	0.3		230.65		
	Deduction of Toilet Area	Cum	-1	5.1	3.4	0.3	-5.20		
		Cum	-1	11.4	6.1	0.3	-20.86		
	Basic rate							325.00	
	Area weightage 8%							26.00	
	Total						680.84	351.00	238976.02
14	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.43cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, L.No. 4.5 of PWD SR 2018-19)								
	For Site								
	Cum	1	9.5	1.3	0.15		1.92		
	Cum	1	9.5	22.6	0.15		32.21		
	Cum	1	9.8	21.8	0.15		32.04		
	Cum	1	9.8	2.6	0.15		3.81		
	Cum	1	51	22.0	0.15		168.15		
	Cum	1	53	14.5	0.15		115.33		
	Deduction of Toilet Area	Cum	-1	5.1	3.4	1.15	-19.94		
		Cum	-1	11.4	6.1	2.15	-149.51		
	Basic rate							5328.00	
	Area weightage 8%							426.24	
	Total						184.00	5754.24	1058789.81
15	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2, Pg No 16, Item No 4.31								
	Tie Beam For Compound Wall								
	Sqm	2	1.6			0.3	0.95		
	Sqm	2	4.7			0.3	2.82		
	Sqm	2	7.3			0.3	4.38		
	Sqm	2	18.1			0.3	10.86		
	Sqm	2	59.0			0.3	35.40		
	SSLC and PUC college Behind	Sqm	2	84.0		0.20	33.60		
	Fencing for Compound Coping Concrete on retaining wall	Sqm	2						
	Basic rate							358.00	
	Area weightage 8%							28.64	
	Total						88.01	386.64	34027.41

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
16	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillers, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10								
	Tie Beam For Compound Wall								
		Cum	1	1.58	0.2	0.3	0.09		
		Cum	1	4.70	0.2	0.3	0.28		
		Cum	1	7.30	0.2	0.3	0.44		
		Cum	1	18.10	0.2	0.3	1.09		
	SSLC and PUC college Behind	Sqm	1	59.00	0.2	0.3	3.54		
	Basic rate							5812.00	
	Area weightage 8%							464.96	
	Total						5.44	6276.96	34151.68
17	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2								
	Tie Beam For Compound Wall	Cum					5.44		
		kg					816.12		
		Tonne					0.82		
	Basic rate							64410.00	
	Area weightage 8%							5152.80	
	Total						0.82	69562.80	56771.59
18	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No. 112, I.No. 14.62 of PWD SR 2018-19)								
	Pathway	Sqm	1	9.5	1.35		12.79		
		Sqm	1	9.5	22.60		214.70		
		Sqm	1	9.8	21.80		213.61		
		Sqm	1	9.8	2.60		25.43		
		Sqm	1	51.0	21.98		1120.98		
		Sqm	1	53.0	14.51		768.84		
	Deduction For Toilet Area	Sqm	-1	5.1	3.40		-17.34		
		Sqm	-1	11.4	6.10		-69.54		
								1232.00	
	Basic rate							98.56	
	Area weightage 8%						2269.48	1330.56	3019676.45
	Total								
19	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 conforming to IS 2185 (Part) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(item no5.27.1 page no27)								
	For Compound Wall								
		Sqm	1	1.6			3.05	4.82	
		Sqm	1	4.7			3.05	14.33	
		Sqm	1	7.3			3.05	22.25	
		Sqm	1	18.1			3.05	55.17	
	SSLC and PUC college Behind	Sqm	1	59.0			3.05	179.83	
	Basic rate							912.00	
	Area weightage 8%							72.96	
	Total						276.39	284.96	272235.69

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
20	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116, Item No.15.16								
	For Compound Wall								
		Sqm	2	1.6			3.05	9.63	
		Sqm	2	4.7			3.05	28.65	
		Sqm	2	7.3			3.05	44.50	
		Sqm	2	18.1			3.05	110.34	
	SSLC and PUC college Behind	Sqm	2	59.0			3.05	359.66	
	Basic rate							261.00	
	Area weightage 8%							20.88	
	Total						552.79	281.88	155819.11
21	KSRRB M800- Fencing/ Railing KSRRB M800-17. G.I. Barbed Wire Fencing 1.2 Metre High-Providing and fixing 1.2 metres high GI barbed wire fencing with 1.8 m angle iron posts 40 mm x 40 mm x 6 mm placed every 3 metres center to center founded in M15 grade cement concrete, 0.6 metre below ground level, every 15th post, last but one end post and corner post shall be struted on both sides and end post on one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc complete as per clause 800.7 as per specifications. MORTH Specification No. 807								
	Fencing for Compound	m	1	84			84.00		
	Basic rate							204.00	
	Area weightage 8%							16.32	
	Total						84.00	220.32	18506.88
22	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.43cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2018-19)								
	For Grill Work								
	SSLC School Side Coping Concrete	Cum	1	60	0.2	0.15	1.80		
	Pole Concrete	Cum	20	0.45	0.2	0.60	1.08		
	SSlc School Cycle Stand Side Coping Concrete	Cum	1	30.87	0.2	0.15	0.93		
	Pole Concrete	Cum	11	0.45	0.2	0.60	0.59		
	For Benches Platform	Cum	10	1.8	1.6	0.15	4.32		
	Fencing for Compound Coping Concrete on retaining wall	Cum	1	84.00	0.20	0.20	3.36		
	Basic rate							5328.00	
	Area weightage 8%							426.24	
	Total						12.08	5754.24	69511.79
23	Providing and fixing of wall cladding (DATA RATE)								
	For Compound Wall								
		Sqm	2	1.58			3.05	9.63	
		Sqm	2	4.70			3.05	28.65	
		Sqm	2	7.30			3.05	44.50	
		Sqm	2	18.10			3.05	110.34	
	SSLC and PUC college Behind	Sqm	1	59.00			3.05	179.83	
	Data rate							4000.00	
	Total						372.95	4000.00	1491813.12

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
24	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hallow poles of 132 x 132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x 75mm galvanized flat for alround frame and 20 x 20mm galvanized forged ornamental arrow head in top and bottom the work is inclusive of throughing flat square rods placing welding all the joints including griding finishing 2 coats of anticorrosive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting griding with lead and lift as per specifications including loading and unloading with cost and conveyance of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work								
	SSLC School Side	Sqm	1	60		1.8	108		
	SSle School Cycle Stand Side	Sqm	1	30.87		1.8	55.566		
	Data Rate							9144.14	
	Total						163.57	9144.14	1495670.40
25	Executive Bench-Made out of Sadarahalli grey stone with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90X Length 1500 width 45 cms (Approved Data Rate)								
	benches	Nos	10.00				10.00		
	Data Rate							18200.00	
	Total						10.00	18200.00	182000.00
26	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 gauge M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. P. No. 45 / I. No. 7.37								
	Gate	Sqm	1	4.3		2.27	9.76		
	Basic Rate							3012.00	
	Area weightage 8%							240.96	
	Total						9.76	3252.96	31752.14
	accorded under head							Total Amount	6010188.4
	Special Developmental Works							Total Data Rate Amount	3169483.5
								GST Charges (12% of estimated cost)	721222.6
								Grand Total	9900894.6
	Registered as CE No. 88							Project management Consultancy Charges(1% of estimated cost)	99008.9
	conditions contained in enclosed memo							Miscellaneous and rounding off	96.5
								Sub Total	10000000
									RUPEES ONE CRORE ONLY

CERTIFICATE:

- 1) The work spot has been inspected and found to be necessary
- 2) The work spot comes under B.B.M.P
- 3) The provisions made in the estimate are necessary and minimum
- 4) The estimate is based on C.S.R of 2018-2019, PWD Electrical 2019-20, PRED 2019-20, SE-RDED approved Rate and Issued Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Technical Sanction
Accorded For
Head of A/C
CER NO : 160..... Dt: 28.01.2021